



Apple II Technical Procedures

Appendix A

Keyboard and Keyswitch Replacement

There are two basic types of keyboards for the Apple II: the Datanetics and the Alps. Among the Alps keyboards, there are two types: long stem and short stem. Only the Alps long stem keyboard is currently supported by Apple Computer.

The following procedure will identify Apple II keyboards. If you only want to identify a keyswitch, go to Figure 2, page A.3. To replace a keyswitch, go to section 3 of "You Oughta Know".

To Identify a Datanetics or Alps Keyboard

1. To identify a keyboard, expose a keyswitch by **carefully** prying off a keycap with a screwdriver or knife blade.
2. Before identifying the keyswitches, here are some important distinguishing features you should know: a) Only Alps short stem keyswitches have adapters, small plastic pieces that fit on the stem to make it longer. b) Alps long stem keyswitches are capped directly with the keycap. c) Datanetics keyswitches have a square collar on the middle of the stem. Refer to Figure 1 below for the differences between the Apple II keyswitches.

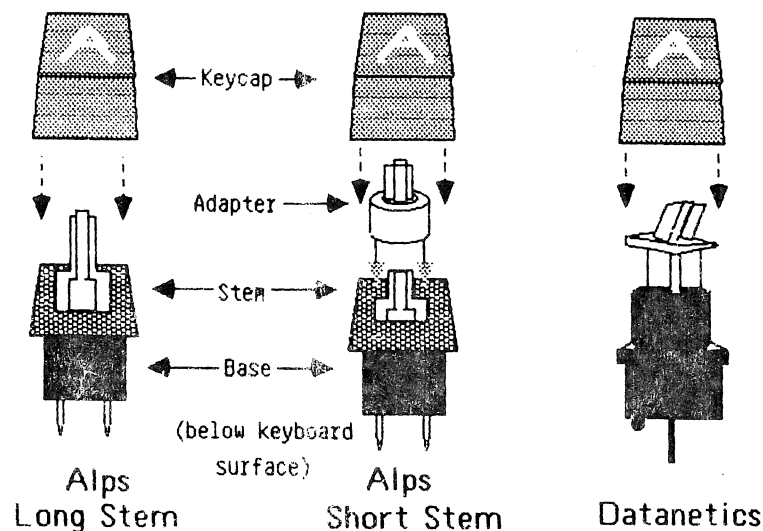


FIGURE 1

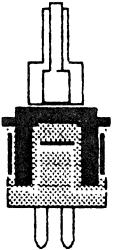







3. Now find the keyswitch on Figure 2 (page A.3). Then find the service part number of the appropriate keyboard in the right hand side of the table.
4. If you cannot identify the keyswitch using Figures 1 and 2, then remove the keyboard and look for the name "Datanetics" on the PCB.*
 - o If you locate the word "Datanetics" on the PCB, replace the keyboard with an Alps long stem.
 - o If you do not locate the word "Datanetics" on the PCB, then go to step 5.
5. Check to see if you find an adapter on the keyswitch. If there is an adapter, then the keyboard is an Alps short stem. If there is not an adapter, then the keyboard is an Alps long stem. Verify this by checking Figure 1, page A.1.

* Datanetics keyboards and keyswitches are no longer supported and replacement parts can no longer be ordered.



FIGURE 2: Apple II

<u>Keyswitch</u>		<u>Keyboard</u>
<u>A. Alps Long Stem</u>		Service Part Number of Keyboard:
 <p>705-0070 Alps Long Stem ("Extended")</p>		661-91073
<u>B. Alps Short Stem</u>		Service Part Number of Keyboard:
 <p>705-0015 Alps Short Stem (Uses adapter 815-0182 with non-sculptured keycaps; uses adapter 815-0772 with sculptured keycaps)</p> <p>815-0182 12° adapter used with short-stem keyswitches and <u>non-sculptured</u> keycaps</p>  <p>815-0772 Straight adapter used with short-stem keyswitches and <u>sculptured</u> keycaps</p>  <p>(3-D View)</p>		* 661-74025 * 661-91021 * 661-91075
<u>C. Datanetics</u>		Service Part Number of Keyboard:
 <p>Keyswitch (Obsolete)</p>  <p>Reset (Obsolete)</p>		* 661-74024 * 661-91020

* These Keyboards are no longer available